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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/613,103

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Hua Autumn Liu

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04/06/2007

CAPITOL PATENT & TRADEMARK LAW FIRM, PLLC

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EXAMINER

RUSSELL, WANDA Z

ART UNIT

PAPER NUMBER

2609

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/613,103

Applicant(s)

LIU, HUA AUTUMN

Examiner

Wanda Z. Russell

Art Unit

2609

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. **Claims 1-25** are rejected under 35 U.S.C. 102(a) as being anticipated by Carpini et al. (Pub No. US 2003/0063613).

Regarding **claim 1**, Carpini et al. disclose a system (Title) for re-routing traffic (Abstract, line 8) from a bi-directional (3, 21-Fig. 1,) Label Switched Path (LSP) ([0038], line 1) comprising:

an originating network device (Fig. 1) operable to:

re-route traffic (Abstract, line 8) traveling along a bi-directional LSP (3-Fig. 1) in a forward direction to an alternate path (21-Fig. 1, and [0039], lines 1-3) in the forward direction; and

transmit a switch over message (signal, [0047], lines 15-19) along the alternate path in the forward direction to a merging network device (9-Fig. 1) responsible for re-routing traffic traveling along the bi-directional LSP in a backward direction to the alternate path in the backward direction (21-Fig. 1, bi-directional, and [0039], lines 1-6).

Regarding **claim 2**, Carpini et al. disclose the system of claim 1, wherein the originating network device is further operable to transmit a second message, along the

alternate path in the forward direction, to the merging network device to allow traffic to travel along the bi-directional LSP in the backward direction when a failure is no longer detected (3, 21-Fig. 1, bi-directional, and "restoration", [0047], lines 1-5).

Regarding **claim 3**, Carpini et al. disclose the system of claim 1, wherein the originating network device is a multi-protocol label switched (MPLS) device ([0034], line 4).

Regarding **claim 4**, Carpini et al. disclose the system of claim 1 wherein the bi-directional LSP is comprised of an LSP carrying traffic in the forward direction and another LSP carrying traffic in the backward direction ([0044], lines 1-9, and [0048], lines 1-3).

Regarding **claim 5**, Carpini et al. disclose the system of claim 1 further comprising a merging network device operable to receive the switch over message and to re-route traffic traveling along the bi-directional LSP in the backwards direction to the alternate path in the backwards direction based on the switch over message (21-Fig. 1, bi-directional, and [0039], lines 1-3).

Regarding **claim 6**, Carpini et al. disclose the system of claim 5, wherein, the merging network device is further operable to:

receive a second message ("restoration", [0047], lines 1-5) along the alternate path in the forward direction; and

allow traffic to travel along the bi-directional LSP in the backward direction when a failure is no longer detected based on said second message (21-Fig. 1, bi-directional).

Regarding **claim 7**, Carpini et al. disclose the system of claim 5 wherein the merging network device is a MPLS device ([0034], line 4).

Regarding **claim 8**, Carpini et al. disclose a merging network device (9-Fig. 1) operable to:

receive a switch over message (signal, [0047], lines 15-19); and
re-route traffic traveling along a bi-directional LSP in a backwards direction to an alternate path in the backwards direction based on the switch over message (21-Fig. 1, bi-directional).

Regarding **claim 9**, Carpini et al. disclose the device as in claim 8 further operable to:

receive a second message ("restoration", [0047], lines 1-5) along the alternate path in the forward direction; and

allow traffic to travel along the bi-directional LSP in the backward direction (21-Fig. 1, bi-directional) when a failure is no longer detected based on said second message.

Regarding **claim 10**, Carpini et al. disclose the device of claim 8 wherein, the merging network device is a MPLS device ([0034], line 4).

Regarding **claim 11-15**, they are method claims of claims 1, 2, 4, 8, and 9 respectively. Therefore they are rejected for the same reason above.

Regarding **claim 16-17**, they are method claims of claims 8, and 9 respectively. Therefore they are rejected for the same reason above.

Regarding **claim 18**, Carpini et al. disclose a system (Title) for re-routing traffic (Abstract, line 8) comprising:

an originating network device (Fig. 1) comprising:

means (routers, 7-Fig. 1) for re-routing traffic traveling along a bi-directional LSP in a forward direction to an alternate path (21-Fig. 1, and [0039], lines 1-3) in the forward direction; and

means (9-Fig. 1) for transmitting a switch over message along the alternate path in the forward direction to a merging network device (9-Fig. 1) responsible for re-routing traffic traveling along the bi-directional LSP in a backward direction to the alternate path in the backward direction (21-Fig. 1, bi-directional, and [0039], lines 1-6).

Regarding **claim 19**, Carpini et al. disclose the system of claim 18, wherein the originating network device further comprises means (9-Fig. 1, and [0047], lines 1-5) for transmitting a second message ("restoration", [0047], line 1), along the alternate path in the forward direction, to the merging network device to allow traffic to travel along the bi-directional LSP in the backward direction when a failure is no longer detected (3, 21-Fig. 1, bi-directional, and [0051], lines 1-5).

Regarding **claim 20**, Carpini et al. disclose the system of claim 18 wherein the bi-directional LSP is comprised of an LSP carrying traffic in the forward direction and another LSP carrying traffic in the backward direction ([0044], lines 1-9, and [0048], lines 1-3).

Regarding **claim 21**, Carpini et al. disclose the system of claim 1 further comprising a merging network device which comprises means (71-Fig. 4, [0054], lines 4-12) for receiving the switch over message (signal, [0047], lines 15-19) and means for re-routing traffic traveling along the bi-directional LSP in the backwards direction to the alternate path in the backwards direction based on the switch over message (21-Fig. 1, bi-directional, and [0039], lines 1-3).

Regarding **claim 22**, Carpini et al. disclose the system of claim 21, wherein, the merging network device further comprises:

means (71-Fig. 4, [0054], lines 4-12) for receiving a second message ("restoration", [0047], line 1) along the alternate path in the forward direction; and
means (71-Fig. 4, [0054], lines 4-12) for allowing traffic to travel along the bi-directional LSP in the backward direction when a failure is no longer detected based on said second message (3, 21-Fig. 1, bi-directional).

Regarding **claim 23**, Carpini et al. disclose a merging network device (9-Fig. 1) comprising:

means (71-Fig. 4, [0054], lines 4-12) for receiving a switch over message (signal, [0047], lines 15-19); and
means (71-Fig. 4, [0054], lines 4-12) for re-routing traffic traveling along a bi-directional LSP in a backwards direction to an alternate path in the backwards direction based on the switch over message (21-Fig. 1, bi-directional).

Regarding **claim 24**, Carpini et al. disclose the device as in claim 23 further comprising:

means (71-Fig. 4, [0054], lines 4-12) for receiving a second message ("restoration", [0047], line 1) along the alternate path in the forward direction; and means (71-Fig. 4, [0054], lines 4-12) for allowing traffic to travel along the bi-directional LSP in the backward direction when a failure is no longer detected based on said second message (21-Fig. 1, bi-directional).

Regarding **claim 25**, Carpini et al. disclose a system (Title) for re-routing traffic (Abstract, line 8) comprising:

means (7-Fig. 1) for re-routing traffic traveling along a bi-directional LSP in a forward direction to an alternate path in the forward direction;

means (7, 9, 23-Fig. 1) for transmitting a switch over message (signal, [0047], lines 15-19), along the alternate path in the forward direction, for re-routing traffic traveling along the bi-directional LSP in a backward direction (3, 21-Fig. 1, bi-directional);

means (9-Fig. 1) for receiving the switch over message; and means for re-routing traffic traveling along the bi-directional LSP in a backwards direction to the same alternate path in the backwards direction based on the switch over message (21-Fig. 1, bi-directional).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wanda Z. Russell whose telephone number is (571) 270-1796. The examiner can normally be reached on Monday-Thursday 9:00-6:00 EST.

Art Unit: 2609

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eliseo Ramos-Feliciano can be reached on (571) 272-7925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

WZR

 3/31/27
ELISEO RAMOS-FELICIANO
SUPERVISORY PATENT EXAMINER